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TECH CENTER 1600/2900

Sequence Listing

<110> Cochran, Andrea G.
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Starovasnik, Melissa A.

<120> Structured Peptide Scaffold For Displaying Turn
Libraries On Phage

<130> P1762R1 US

<140> US 09/392,695

<141> 2000-06-13

<150> US 60/139,017

<151> 1999-06-14

<160> 40

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<220>

<221> UNSURE

<222> 2, 9

<223> Xaa at positions 2 or 9 is Trp, Tyr, Phe, His, Ile, Val or Thr.

<220>

<221> UNSURE

<222> 3, 8

<223> Xaa at positions 3 or 8 is Trp, Tyr, Phe, Leu, Met, Ile or Val.

<400> 1

Cys Xaa Xaa Glu Gly Asn Lys Xaa Xaa Cys

1

5

10

<210> 2

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 2

Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys

1

5

10

<210> 3

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 3

Ser Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys Lys
1 5 10

<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 4

Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys
1 5 10

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 5

Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys
1 5 10

<210> 6

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 6

Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10

<210> 7

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 7

Ser Cys Thr Asn Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10

<210> 8
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 8
Ser Cys Gly Trp Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10

<210> 9
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 9
Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10

<210> 10
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 10
Met Gln Ile Gly Val Lys Asn Pro Asp Gly Thr Ile Thr Leu Glu
1 5 10 15

Val

<210> 11
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 8
<223> Xaa at position 8 is Pro

<220>
<221> UNSURE
<222> 9
<223> Xaa at position 9 is Ala or Gly

<400> 11
Met Gln Ile Gly Val Lys Ser Xaa Xaa Lys Thr Ile Thr Leu Lys
1 5 10 15

Val

<210> 12
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 12
Cys Thr Lys Val Trp Gln Leu Trp Thr Cys
1 5 10

<210> 13
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 13
Ser Cys Thr Trp Val Trp Gln Leu Leu Thr Cys Lys
1 5 10

<210> 14
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 14
Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
1 5 10

<210> 15
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<400> 15
Ser Cys Thr Trp Gly Pro Leu Thr Leu Thr Cys Lys
1 5 10

<210> 16
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

<400> 16
Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
1 5 10

<210> 17
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

<400> 17
Cys Thr Xaa Glu Asn Gly Lys Leu Thr Cys
1 5 10

<210> 18
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

<220>
<221> UNSURE
<222> 5
<223> Pro is D-Pro

<400> 18
Cys Thr Xaa Glu Pro Asn Lys Leu Thr Cys
1 5 10

<210> 19
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

<220>
<221> UNSURE
<222> 5
<223> Pro is D-Pro

<400> 19
Cys Thr Xaa Glu Pro Gly Lys Leu Thr Cys
1 5 10

<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala

<400> 20
Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
1 5 10

<210> 21
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 8
<223> Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala.

<400> 21
Cys Thr Leu Glu Gly Asn Lys Xaa Thr Cys
1 5 10

<210> 22
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 3
<223> Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala

<400> 22
Cys Thr Xaa Glu Gly Asn Lys Trp Thr Cys
1 5 10

<210> 23
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> turn peptide

<220>
<221> UNSURE
<222> 8
<223> Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala

<400> 23
Cys Thr Trp Glu Gly Asn Lys Xaa Thr Cys
1 5 10

<210> 24
<211> 102
<212> DNA
<213> Artificial Sequence

<220>
<223> synthesized sequence

<400> 24
taataataaa tggctgatcc gaaccgtttc cgcggtaaag atctgggtgg 50
cggtactcca aacgacccgc caaccactcc accaactgat agcccaggcg 100
gt 102

<210> 25
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthesized sequence.

<220>
 <221> unsure
 <222> 19-20, 31-32, 34-35, 37-38, 40-41, 52-53
 <223> unknown base

 <400> 25
 tccgcctcgg cttatgcann stgcacttgg nnsnnsnnsn nsctgacttg 50

 tnnsatggct gatccgaacc gt 72

 <210> 26
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> turn peptide

 <400> 26
 Tyr Gln Asn Pro Asp Gly Ser Gln Ala
 1 5

 <210> 27
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> turn peptide

 <400> 27
 Ile Tyr Ser Asn Pro Asp Gly Thr Trp Thr
 1 5 10

 <210> 28
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> turn peptide

 <400> 28
 Ile Tyr Ser Asn Ser Asp Gly Thr Trp Thr
 1 5 10

 <210> 29
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> turn peptide

<400> 29
 Ile Thr Ser Asn Ser Asp Gly Thr Trp Thr
 1 5 10

<210> 30
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> turn peptide

<400> 30
 Tyr Ile Thr Asn Ser Asp Gly Thr Trp Thr
 1 5 10

<210> 31
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> turn peptide

<400> 31
 Arg Gly Ile Thr Val Asn Gly Lys Thr Tyr Gly Arg
 1 5 10

<210> 32
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> turn peptide

<220>
 <221> UNSURE
 <222> 6
 <223> Xaa at position 6 is D-Pro or L-Asn

<220>
 <221> UNSURE
 <222> 8
 <223> Xaa at position 8 is Orn

<400> 32
 Arg Tyr Val Glu Val Xaa Gly Xaa Lys Ile Leu Gln
 1 5 10

<210> 33
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>

<223> turn peptide

<400> 33

Lys Lys Tyr Thr Val Ser Ile Asn Gly Lys Lys Ile Thr Val Ser
1 5 10 15

Ile

<210> 34

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 34

Gly Glu Trp Thr Tyr Asp Asp Ala Thr Lys Thr Phe Thr Val Thr
1 5 10 15

Glu

<210> 35

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 35

Ala Cys Ser Pro Gly His Cys Glu
1 5

<210> 36

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 36

Cys Gly Val Ser Arg Gln Gly Lys Pro Tyr Cys
1 5 10

<210> 37

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 37

Gly Cys Lys Pro Thr Phe Arg Arg Leu Lys Trp Lys Tyr Lys Cys
1 5 10 15

Gly

<210> 38

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 38

Cys Ala Gly Phe Met Arg Ile Arg Gly Arg Ile His Pro Leu Cys
1 5 10 15

Met Arg Arg

<210> 39

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 39

Phe Cys Asn Gln Gly Ser Phe Leu Cys Tyr
1 5 10

<210> 40

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> turn peptide

<400> 40

Phe Cys Tyr Ile Cys Glu Val Glu Asp Gln Cys Tyr
1 5 10